AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

1 - 20. (Cancelled)

21. (Currently Amended) [[M]]A method for determining an actual position of a geodetic instrument comprising a positioning system which is based on the reception of shadowable signals and a dead range within which the propagation of the signal is impaired in such a way that a direct determination of the actual position by means of the positioning system is at least limited comprising the following acts:

recording of a first piece of image information from a first known position determined by means of the positioning system which is based on the reception of shadowable signals and the dead range within which the propagation of the signal is impaired in such a way that a direct determination of the actual position by means of the positioning system is at least limited, the first piece of image information having at least two identifiable reference structures which can be detected at least from a partial region of the dead range and measurement of at least one first distance from the first known position, the first distance being coordinated indirectly or directly with the reference structures;

recording of a second piece of image information from a second known position determined by means of the positioning system, the second piece of image information having at least the two identifiable reference structures and measurement of at least one second distance from the second known position, the second distance being coordinated indirectly or directly with the reference structures;

recording of a piece of actual image information from an actual position, the actual image information having at least the two identifiable reference structures and measurement of at least one actual distance from the actual position, the actual distance being coordinated indirectly or directly with the reference structures:

derivation of the actual position of the <u>geodetic instrument</u> by referencing relative to the at least two reference structures

- (Currently Amended) <u>The [[M]]method according to Claim 21</u>, further comprising repeating individual acts or a plurality of the acts set forth in Claim 21.
- (Currently Amended) The [[M]]method according to Claim 21, wherein one
 distance is measured in each case in the measurement of the distances to each of the reference
 points.
- 24. (Currently Amended) The [[M]]method according to Claim 21, wherein a measurement of the distance to each point of a detected image is effected in the recording of the image information.
- (Currently Amended) The [[M]]method according to Claim 21, wherein the
 position of the two reference structures is determined in the derivation of the actual position.
- (Currently Amended) <u>The [[M]]method according to Claim 25</u>, wherein the derivation of the actual position is effected by means of a trilinear surveying method.

- 27. (Currently Amended) The [[M]]method according to Claim 21, wherein, in the derivation of the actual position, a transformation is used which links the actual position via the at least two reference structures to the first known position and the second known position.
- (Currently Amended) <u>The [[M]]method according to Claim 21</u>, wherein the
 measurement of the distances is carried out by means of optical distance measurement.
- (Currently Amended) The [[M]]method according to Claim 28, wherein the
 measurement of the distances is carried out by means of laser distance measurement.
- (Currently Amended) <u>The [[M]]method according to Claim 21</u>, wherein the positioning system includes a satellite-supported system.
- (Currently Amended) <u>The [[M]]me</u>thod according to Claim 30, wherein the positioning system includes a Global Positioning System.
- (Currently Amended) <u>The [[M]]method according to Claim 21</u>, wherein the positioning system includes an Earth-supported system.
- (Currently Amended) <u>The [[M]]method according to claim 32</u>, wherein the positioning system includes a Total Positioning System.

- (Currently Amended) The [[M]]method according to Claim 21, wherein the at least two reference structures are tracked and/or identified automatically.
- 35. (Currently Amended) The [[M]]method according to Claim 21, wherein at least the first piece of image information is stored and the at least two reference structures in the second piece of image information and/or the actual image information are identified by image processing methods.
- 36. (Currently Amended) <u>The [[M]]method according to Claim 35</u>, wherein the at least two reference structures in the second piece of image information and/or the actual image information are identified by matching methods.
- 37. (Currently Amended) The [[M]]method according to Claim 21, wherein the recording of the first and second pieces of image information and the measurement of the first and second distances are carried out in an automated manner.
- 38. (Currently Amended) The [[M]]method according to claim 37, wherein the recording of the first and second pieces of image information and the measurement of the first and second distances are constantly repeated.
- 39. (Currently Amended) <u>The [[M]]method according to Claim 38</u>, wherein, in the event of a limitation of the direct determination of the actual position by means of the positioning system, the derivation of the actual position is effected in an automated manner.

- 40. (Currently Amended) The [[M]]method according to claim 39, wherein, in the event of a limitation of the direct determination of the action position by means of the positioning system, the derivation of the actual position is effected repeatedly or continuously.
- (Currently Amended) A [[D]]device for determining an actual position of a
 geodetic instrument according to the method of claim 21, the device comprising the following:
 image recording unit:

telemeter:

data processing unit configured to derive the actual position, wherein the device configured to perform the method of claim 21 in an automated manner.

- (Currently Amended) <u>The [[D]]device</u> according to Claim 41, wherein the image recording unit includes an image memory and/or an image information memory.
- (Currently Amended) <u>The [[D]]device</u> according to Claim 41, wherein the telemeter is a laser telemeter.
- (Currently Amended) <u>The [[D]]device according to Claim 41</u>, wherein the telemeter is integrated in the image recording unit.

- 45. (Currently Amended) The [[D]]device according to Claim 44, wherein the telemeter is integrated in the image recording unit in the form of a range imaging sensor or of a scanning telemeter.
- 46. (Currently Amended) The [[D]]device according to Claim 44, wherein the data processing unit is formed in such a way that a limitation of the direct determination of the actual position by means of the positioning system is recognizable and an alarm and/or an automated derivation of the actual position is triggered.
- (Currently Amended) <u>The [[D]]device</u> according to Claim 44, further comprising an inclinemeter.
- (Currently Amended) <u>The [[D]]device</u> according to Claim 44, further comprising a direction meter.
- (Currently Amended) <u>The [[D]]de</u>vice according to claim 48, wherein the direction meter includes a magnetic compass.
- (Currently Amended) A[[G]]geodetic instrument comprising a unit for position determination by means of a positioning system based on the reception of shadowable signals and a device according to Claim 44.

- 51. (Currently Amended) The [[G]]geodetic instrument according to claim 50, the unit for position determination including a reflector for geodetic surveying or a GPS receiver.
- 52. (Currently Amended) A data medium having a [[C]]computer program as a recordstored on [[a]]the data medium or in the form of a data signal for carrying out the method according to claim 21.